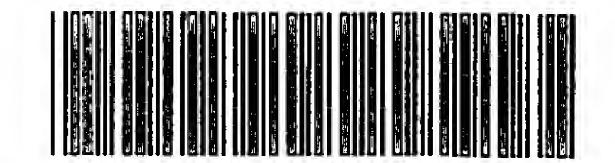


SEP 24 2003

# CRF Errors Edited by the STIC SYNTHOMER 1600/2900 Branch

D 1!	lain a mid/a main a anid manumba	na/taret in aggas whoma the governmen
•	ed" to the next line	rs/text in cases where the sequence ENTEF
Corrected th	ne SEQ ID NO. Sequence nun	nbers edited were:
Inserted or condited		the end of a nucleic line. SEQ ID
	invalid heginning/end-of-file	text; page numbers
Deleted:	_ invalid beginning/end-oi-life	• •
	ndatory headings/numeric ide	
Inserted mai	ndatory headings/numeric ide	
Inserted mai	ndatory headings/numeric ide	entifiers, specifically:



1600

RAW SEQUENCE LISTING

DATE: 09/22/2003

PATENT APPLICATION: US/09/165,546D

TIME: 15:41:31

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF4\09152003\I165546D.raw

## SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
C-->
             (i) APPLICANT: Knuth, Alexader; Jager, Elke; Chen, Yao, Scanlan, Matt;
                            Gure, Ali, Old, Lloyd, Ritter, Gerd
             (ii) TITLE OF INVENTION: ISOLATED PEPTIDES CORRESPONDING TO AMINO ACID
                                      SEQUENCES OF NY-ESO-1, WHICH BIND TO MHC CLASS I AND MHC
CLASS II MOLECULES, AND
      8
                                      USES THEREOF
     10
           (iii) NUMBER OF SEQUENCES: 15
     12
             (iv) CORRESPONDENCE ADDRESS:
     13
                   (A) ADDRESSEE: FULBRIGHT & JAWORSKI LLP
                   (B) STREET: 666 Fifth Avenue
     14
     15
                   (C) CITY: New York City
     16
                   (D) STATE: New York
     17
                   (E) COUNTRY: USA
     18
                   (F) ZIP: 10158
     20
             (V) COMPUTER READABLE FORM:
                   (A) MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
     21
     22
                   (B) COMPUTER: IBM
     23
                   (C) OPERATING SYSTEM: PC-DOS
     24
                   (D) SOFTWARE: Word
     26
            (vi) CURRENT APPLICATION DATA:
C-->27
                  (A) APPLICATION NUMBER: US/09/165,546D
C--> 28
                   (B) FILING DATE: 02-Oct-1998
     29
                   (C) CLASSIFICATION: 530
C--> 39
           (vii) PRIOR APPLICATION DATA:
     32
                   (A) APPLICATION NUMBER: 09/062,422
     33
                   (B) FILING DATE: April 17, 1998
     36
                   (A) APPLICATION NUMBER: 08/937,263
     37
                   (B) FILING DATE: September 15, 1997
                  (A) APPLICATION NUMBER: US 08/725,182
     40
     41
                   (B) FILING DATE: October 3, 1996
          (viii) ATTORNEY/AGENT INFORMATION:
     43
     44
                  (A) NAME: Hanson, Norman D.
     45
                  (B) REGISTRATION NUMBER: 30,946
                  (C) REFERENCE/DOCKET NUMBER: LUD 2166.4 CIP (09807811)
     46.
     48
            (ix) TELECOMMUNICATION INFORMATION:
     49
                  (A) TELEPHONE: (212) 318-3000
     50
                  (B) TELEFAX: (212) 318-3400
     52 (2) INFORMATION FOR SEQ ID NO: 1:
     53
             (i) SEQUENCE CHARACTERISTICS:
     54
                  (A) LENGTH: 752 base pairs
     55
                  (B) TYPE: nucleic acid
```

(C) STRANDEDNESS: double

56

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/165,546D

DATE: 09/22/2003

TIME: 15:41:31

Input Set : A:\PTO.PG.txt

```
(D) TOPOLOGY: linear
57
58
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
60 ATCCTCGTGG GCCCTGACCT TCTCTCTGAG AGCCGGGCAG AGGCTCCGGA GCC
                                                                   53
62 ATG CAG GCC GAA GGC CGG GGC ACA GGG GGT TCG ACG GGC GAT GCT
63 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala
64
                                        10
                                                            15
66 GAT GGC CCA GGA GGC CCT GGC ATT CCT GAT GGC CCA GGG GGC AAT
67 Asp Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn
68
                                        25
                                                            30
70 GCT GGC GGC CCA GGA GAG GCG GGT GCC ACG GGC GGC AGA GGT CCC
71 Ala Gly Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Ala Pro
72
                   35
                                                            45
74 CGG GGC GCA GGG GCA GCA AGG GCC TCG GGG CCG GGA GGA GGC GCC
75 Arg Gly Ala Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala
78 CCG CGG GGT CCG CAT GGC GGC GCG GCT TCA GGG CTG AAT GGA TGC
79 Pro Arg Gly Pro His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys
80
                                                            75
                   65
                                        70
82 TGC AGA TGC GGG GCC AGG GGG CCG GAG AGC CGC CTG CTT GAG TTC
83 Cys Arg Cys Gly Ala Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe
84
86 TAC CTC GCC ATG CCT TTC GCG ACA CCC ATG GAA GCA GAG CTG GCC
87 Tyr Leu Ala Met Pro Phe Ala Thr Pro Met Glu Ala Glu Leu Ala
88
                                        100
                                                            105
90 CGC AGG AGC CTG GCC CAG GAT GCC CCA CCG CTT CCC GTG CCA GGG
91 Arg Arg Ser Leu Ala Gln Asp Ala Pro Pro Leu Pro Val Pro Gly
92
                   110
                                        115
                                                           120
94 GTG CTT CTG AAG GAG TTC ACT GTG TCC GGC AAC ATA CTG ACT ATC
95 Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr Ile
96
                   125
                                        130
                                                            135
98 CGA CTG ACT GCT GCA GAC CAC CGC CAA CTG CAG CTC TCC ATC AGC
99 Arg Leu Thr Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser
100
                    140
                                         145
                                                             150
102 TCC TGT CTC CAG CAG CTT TCC CTG TTG ATG TGG ATC ACG CAG TGC
103 Ser Cys Leu Gln Gln Leu Ser Leu Leu Met Trp Ile Thr Gln Cys
104
                    155
                                         160
                                                             165
106 TTT CTG CCC GTG TTT TTG GCT CAG CCT CCC TCA GGG CAG AGG CGC
107 Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg
108
                    170
                                         175
                                                             180
110 TAAGCCCAGC CTGGCGCCCC TTCCTAGGTC ATGCCTCCTC CCCTAGGGAA
                                                                  643
111 TGGTCCCAGC ACGAGTGGCC AGTTCATTGT GGGGGCCTGA TTGTTTGTCG
                                                                  693
112 CTGGAGGAGG ACGGCTTACA TGTTTGTTTC TGTAGAAAAT AAAACTGAGC
                                                                  743
113 TACGAAAAA
                                                                  752
115 (2) INFORMATION FOR SEQ ID NO: 2:
         (i) SEQUENCE CHARACTERISTICS:
116
              (A) LENGTH: 31 base pairs
117
              (B) TYPE: nucleic acid
118
119
              (C) STRANDEDNESS: single
              (D) TOPOLOGY: linear
120
```

#### DATE: 09/22/2003 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/165,546D TIME: 15:41:31 Input Set : A:\PTO.PG.txt Output Set: N:\CRF4\09152003\I165546D.raw 121 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 123 CACACAGGAT CCATGGATGC TGCAGATGCG G 31 126 (2) INFORMATION FOR SEQ ID NO: 3: (i) SEQUENCE CHARACTERISTICS: 127 128 (A) LENGTH: 32 base pairs 129 (B) TYPE: nucleic acid 130 (C) STRANDEDNESS: single 131 (D) TOPOLOGY: linear 132 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: 134 CACACAAAGC TTGGCTTAGC GCCTCTGCCC TG . 32 137 (2) INFORMATION FOR SEQ ID NO: 4: 138 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 amino acids 139 140 (B) TYPE: amino acid 141 (D) TOPOLOGY: linear 142 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 144 Ser Leu Leu Met Trp Ile Thr Gln Cys Phe Leu 145 10 148 (2) INFORMATION FOR SEQ ID NO: 5: 149 (i) SEQUENCE CHARACTERISTICS: 150 (A) LENGTH: 9 amino acids 151 (B) TYPE: amino acid 152 (D) TOPOLOGY: linear 153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: 155 Ser Leu Leu Met Trp Ile Thr Gln Cys 156 159 (2) INFORMATION FOR SEQ ID NO: 6: 160 (i) SEQUENCE CHARACTERISTICS: 161 (A) LENGTH: 9 amino acids 162 (B) TYPE: amino acid 163 (D) TOPOLOGY: linear 164 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: 166 Gln Leu Ser Leu Leu Met Trp Ile Thr 167 (2) INFORMATION FOR SEQ ID NO: 7: 168 169 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids 170

179 (2) INFORMATION FOR SEQ ID NO: 8:

171

172

173

176

- C--> 180 (i) SEQUENCE CHARACTERISTICS:
  - 181 (A) LENGTH: 18 amino acids
  - 182 (B) TYPE: amino acid
  - 183 (D) TOPOLOGY: linear
  - 184 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

(B) TYPE: amino acid

(D) TOPOLOGY: linear

175 Leu Leu Met Trp Ile Thr Gln Cys Phe Leu

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

186 Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln

10

# RAW SEQUENCE LISTING PATENT APPLICATION: US/09/165,546D DATE: 09/22/2003 TIME: 15:41:31

Input Set : A:\PTO.PG.txt

```
187
                                          10
                                                              15
188 Gln Leu
191 (2) INFORMATION FOR SEQ ID NO: 9:
192
         (i) SEQUENCE CHARACTERISTICS:
193
              (A) LENGTH: 18 amino acids
194
              (B) TYPE: amino acid
195
              (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
196 ·
198 Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
199
                                         10
                                                              15
200 Leu Thr
203 (2) INFORMATION FOR SEQ ID NO: 10:
204
         (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 18 amino acids
205
206
              (B) TYPE: amino acid
207
              (D) TOPOLOGY: linear
208
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
210 Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val Ser Gly
211
212 Asn Ile
215 (2) INFORMATION FOR SEQ ID NO: 11:
216
         (i) SEQUENCE CHARACTERISTICS:
217
              (A) LENGTH: 18 amino acids •
218
              (B) TYPE: amino acid
219
              (D) TOPOLOGY: linear
220
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
222 Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala Arg Gly
223
                                          10
                                                              15
224 Pro Glu
227 (2) INFORMATION FOR SEQ ID NO: 12:
228
         (i) SEQUENCE CHARACTERISTICS:
229
              (A) LENGTH: 18 amino acids
230
              (B) TYPE: amino acid
231
              (D) TOPOLOGY: linear
232
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
234 Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe Ala Thr Pro Met
235
                                         10
                                                               15
236 Glu Ala
239 (2) INFORMATION FOR SEQ ID NO: 13:
240
         (i) SEQUENCE CHARACTERISTICS:
241
              (A) LENGTH: 18 amino acids
242
              (B) TYPE: amino acid
243
              (D) TOPOLOGY: linear
244
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
246 Thr Val Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His
247
                                         10
                                                              15
248 Arg Gln
251 (2) INFORMATION FOR SEQ ID NO: 14:
         (i) SEQUENCE CHARACTERISTICS:
252
```

RAW SEQUENCE LISTING

DATE: 09/22/2003 TIME: 15:41:31 PATENT APPLICATION: US/09/165,546D

Input Set : A:\PTO.PG.txt

```
(A) LENGTH: 6 amino acids
253
254
              (B) TYPE: amino acid
255
              (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
256
258 Leu Leu Met Trp Ile Thr
259
262 (2) INFORMATION FOR SEQ ID NO: 15:
263
         (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 180 amino acids
264
265
              (B) TYPE: amino acid
266
              (D) TOPOLOGY: linear
267
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15
269 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala
270
                                         10
                                                              15
271 Asp Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn
272
                    20
                                                              30
273 Ala Gly Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro
274
                                                              45
275 Arg Gly Ala Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala
276
                    50
                                                              60
277 Pro Arg Gly Pro His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys
278
279 Cys Arg Cys Gly Ala Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe
280
281 Tyr Leu Ala Met Pro Phe Ala Thr Pro Met Glu Ala Glu Leu Ala
282
                    95
                                         100
                                                              105
283 Arg Arg Ser Leu Ala Gln Asp Ala Pro Pro Leu Pro Val Pro Gly
284
                    110
                                         115
                                                              120
285 Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr Ile
286
                    125
                                         130
                                                              135
287 Arg Leu Thr Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser
288
                    140
                                         145
                                                              150
289 Ser Cys Leu Gln Gln Leu Ser Leu Leu Met Trp Ile Thr Gln Cys
290
                    155
                                         160
                                                              165
291 Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg
292
                    170
                                                              180
```

### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/165,546D

DATE: 09/22/2003 TIME: 15:41:32

Input Set : A:\PTO.PG.txt

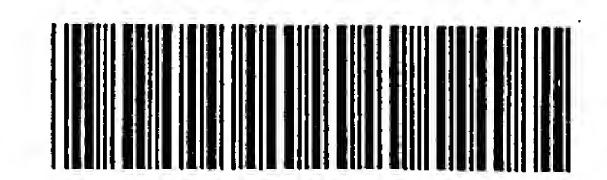
Output Set: N:\CRF4\09152003\I165546D.raw

L:3 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:31 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]
L:180 M:220 C: Keyword misspelled or invalid format, [(i) SEQUENCE CHARACTERISTICS:]



1600

RAW SEQUENCE LISTING

DATE: 09/22/2003

PATENT APPLICATION: US/09/165,546D

TIME: 15:37:06

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF4\09222003\I165546D.raw

### SEQUENCE LISTING

```
GENERAL INFORMATION:
             (i) APPLICANT: Knuth, Alexader; Jager, Elke; Chen, Yao, Scanlan, Matt;
C-->
                            Gure, Ali, Old, Lloyd, Ritter, Gerd
                 TITLE OF INVENTION: ISOLATED PEPTIDES CORRESPONDING TO AMINO ACID
                                      SEQUENCES OF NY-ESO-1, WHICH BIND TO MHC CLASS I AND MHC
CLASS II MOLECULES, AND
                                     USES THEREOF
      8
           (iii) NUMBER OF SEQUENCES: 15
     10
            (iv) CORRESPONDENCE ADDRESS:
     12
     13
                  (A) ADDRESSEE: FULBRIGHT & JAWORSKI LLP
                   (B) STREET: 666 Fifth Avenue
     14
                                                                Does Not Comply
     15
                   (C) CITY: New York City
                                                                Corrected Diskette Needed
     16
                  (D) STATE: New York
     17
                  (E) COUNTRY: USA
     18
                  (F) ZIP: 10158
     20
             (v) COMPUTER READABLE FORM:
     21
                   (A) MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
     22
                  (B) COMPUTER: IBM
     23
                  (C) OPERATING SYSTEM: PC-DOS
     24
                  (D) SOFTWARE: Word
     26
            (vi) CURRENT APPLICATION DATA:
C--> 27
                  (A) APPLICATION NUMBER: US/09/165,546D
C--> 28
                  (B) FILING DATE: 02-Oct-1998
     29
                  (C) CLASSIFICATION: 530
C-->39
           (vii) PRIOR APPLICATION DATA:
     32
                  (A) APPLICATION NUMBER: 09/062,422
     33
                  (B) FILING DATE: April 17, 1998
     36
                  (A) APPLICATION NUMBER: 08/937,263
     37
                  (B) FILING DATE: September 15, 1997
     40
                  (A) APPLICATION NUMBER: US 08/725,182
     41
                  (B) FILING DATE: October 3, 1996
          (viii) ATTORNEY/AGENT INFORMATION:
                  (A) NAME: Hanson, Norman D.
     44
     45
                  (B) REGISTRATION NUMBER: 30,946
   46
                  (C) REFERENCE/DOCKET NUMBER: LUD 2166.4 CIP (09807811)
     48
            (ix) TELECOMMUNICATION INFORMATION:
     49
                  (A) TELEPHONE: (212) 318-3000
                  (B) TELEFAX: (212) 318-3400
     50
           INFORMATION FOR SEQ ID NO: 1:
     53
             (i) SEQUENCE CHARACTERISTICS:
     54
                  (A) LENGTH: 752 base pairs
     55
                  (B) TYPE: nucleic acid
     56
                  (C) STRANDEDNESS: double
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/165,546D

DATE: 09/22/2003

TIME: 15:37:06

·

Input Set : A:\PTO.PG.txt

	57			( [	) T(	OPOLO	OGY:	line	ear								
	58	T	•	_	_					SEQ ]				7m 0 0 /	7677	300	<b>.</b>
										AGC							53
										GGG Gly							98
	64	Mec	GIII	AIG	Giu	5 5	Arg	GIŽ	TIII	GTĀ	10	Der	1111	Сту	дор	15	
		GAT	GGC	CCA	GGA	GGC	CCT	GGC	ATT	CCT	GAT	GGC	CCA	GGG	GGC	AAT	143
	67	Asp	Gly	Pro	Gly	Gly	Pro	Gly	Ile	Pro	Asp	Gly	Pro	Gly	Gly	Asn	
	68					20					25					30	
										GCC					/		188
W>		Ala	Gly	Gly	Pro		Glu	Ala	GLY	Ala		Gly	Gly	Arg	ALY		
	72 74	CGG	GGC	CCA	GGG	35 GCA	CCA	<b>DCC</b>	GCC	TCG	40 GGG	CCG	GGA	GG⊅	CCC TON	45 GCC	233
										Ser				-			255
•	76	9	1		0-1	50		9			55		<i>9-1</i>	1		60	
	78	CCG	CGG	GGT	CCG	CAT	GGC	GGC	GCG	GCT	TCA	GGG	CTG	AAT	GGA	TGC	278
	79	Pro	Arg	Gly	Pro	His	Gly	Gly	Ala	Ala	Ser	Gly	Leu	Asn	Gly	Cys	
•	80					65					70 .					75	
										GAG	<u></u>						323
W>		Cys	Arg	Cys	СΤΆ	80	Arg	СТА	Pro	Glu/	80	قد بسر	Leu	ьeu	Glu	90	
W>	_	ТАС	СТС	GCC	ΑΤG		ттс	GCG	ACA	ccc			GCA	GAG	CTG		368
										Pro							
	88	<b>-</b>				95		·			100					105	
	90	CGC	AĢG	AGC	CTG	GCC	CAG	GAT	GCC	CCA	CCG	CTT	CCC	GTG	CCA	GGG	413
		Arg	Arg	Ser	Leu		Gln	Asp	Ala	Pro		Leu	Pro	Val	_		
	92	CITIC C	<b>⇔</b> mm	OM C	70 77 CT	110	mm $\wedge$	7 C III	C.M.C	m a c	115	To To Co	70 (71) 70	C/E/C	•	20	450
										Ser						ATC	458
	96	val	п <del>е</del> и	цеи	пуз	125	rne	, T 111L	vаı	Ser	130	MSII	TTG	цец	1117	135	
		CGA	CTG	ACT	GCT		GAC	CAC	CGC	CAA		CAG	CTC	TCC	ATC	AGC	503
	99	Arg	Leu	Thr	Ala	Ala	Asp	His	Arg	Gln	Leu	Gln	Leu	Ser	Ile	Ser	•
	100	)	1			140	)				145	)				150	
																FTGC	548
			Cys	s Leu	ı G1r			ı Ser	. Leu	ı Lev		_	) Ile	? Thr	: Glr	Cys	
	104		י כייים		ነ ርጥር	155 יימיי ב		ב ככיו	י כאמ	ב ככיו	160		GGG	$\mathbf{c} \in \mathbf{C} \Delta C$	ב אכנ	165 CGC	593
																g Arg	
•	108				. , ,	170					175				2	180	
	110	TAA	GCCC	CAGC	CTGG	CGCC	CCC I	TCCI	'AGG'I	C AI	GCCI	CCTC	CCC	CTAGG	GAA		643
										GT GG							693
					ACGG	SCTTF	ACA I	GTTI	'GTTI	C TG	STAGA	raaa.	' AAA	ACTO	SAGC		743
		TAC			· ጥ ፐ / እ	ן בי∧י	) ሮኮሶ	) TD	NIO -	2.				•			752
	116	(2)					CHARA										
	117		/ Τ	-						airs	<b>;</b>						
	118				_		nuc		_								
	119	)		Ī	•		IDEDN										
•	120		•	(	D) 1	'OPOI	JOGY:	lin	ear						•		

### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/165,546D

DATE: 09/22/2003 TIME: 11:05:12

Input Set : A:\pto.yf.txt

	263		(i)	SEÇ	QUEN	CE CH	IARA(	CTER	ISTIC	CS:						
	264			( ]	A) LI	ENGT	H: 18	30 an	nino	acio	sk					
	265			( F	3) T	YPE:	amir	no ac	cid							
	266			( I	) T(	OPOLO	OGY:	line	ear							
	267		(xi)	SEÇ	QUEN(	CE DE	ESCR	PTIC	ON: S	SEQ :	ID NO	): 15	5			
	269	Met	Gln	Ala	Glu	Gly	Arg	Gly	Thr	Gly	Gly	Ser	Thr	Gly	Asp	
	270					5		_			10	_				15
		Asp	Gly	Pro	Gly		Pro	Gly	Ile	Pro		Gly	Pro	Gly	Gly	
	272	_				20					25		<b>-</b>	_		30
		Ala	Gly	Gly	Pro	-	Glu	Ala	Gly	Ala	_	Gly	Gly	Arg	Gly	
	274	<u></u>	~ 3		~ 3	35	- 7	_		~	40	_	~ 1	<b>~</b> 3	<b>~</b> 1	45
		Arg	Gly	Ala	GLY		Ala	Arg	Ala	Ser	_	Pro	GLY	GTĀ	GLY	
	276	<b>D</b>	<b>T</b>	<b>C</b> 1	D	50	<b>C</b> 1	<b>0</b> 3	<b>75 7</b>	70 T	55	<b>01</b>	T	71	C1	60
		Pro	Arg	GTÀ	Pro		GTÀ	ėΤλ	Ата	Ата		етА	ьeu	ASN	стА	Cys 75
	278	C	7 ~~	C	C1	65	7\ ~~ ~~	C1	Dwo	C1,,	70	71 25.00	T 011	Tou	C1,,	. •
	280	Cys	Arg	Cys	дту	80	Arg	ату	PIO	GIU	85	Arg	ьeu	ьeu	GIU	90
		Tyr	Lou	7\ ] _	Mot	• •	Dho	Δla	Thr	Dro	~ ~	Glu	7\	Glu	Len	
	282	тут	пец	та	116 C	95	1110	. ЛІС	1111	110	100	GIU	MIG	Ola	пси	105
		Arg	Δrα	Ser	I.e.ii		Gln	Asp	Δla	Pro		Len	Pro	Val	Pro	
	284		**** 9		<b>L</b> ÇQ	110	01	nop	1114	110	115	#0 W		• • • •		120
	•	Val	Leu	Leu	Lvs		Phe	Thr	Val	Ser	Glv	Asn	Ile	Leu	Thr	
	286				-1-	125	•				130					135
		Arg	Leu	Thr	Ala	Ala	Asp	His	Arq	Gln	Leu	Gln	Leu	Ser	Ile	Ser
	288					140	-				145					150
	289	Ser	Cys	Leu	Gln	Gln	Leu	Ser	Leu	Leu	Met	Trp	Ile	Thr	Gln	Cys
	290		_			155					160	_				165
	291	Phe	Leu	Pro	Val	Phe	Leu	Ala	Gln	Pro	Pro	Ser	Gly	Gln	Arg	Arg
	292		<del></del>			170			£		17.5					180
•	293	/-6-	_		·		7	1.1	L	3						
	294	LUD!	5466.	. 4-SI	EQ.do	c 1	<i> </i>	061	D C	_						
		<del></del>														

DATE: 09/22/2003 RAW SEQUENCE LISTING TIME: 15:37:06 PATENT APPLICATION: US/09/165,546D Input Set : A:\PTO.PG.txt Output Set: N:\CRF4\09222003\I165546D.raw (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 121 123 CACACAGGAT CCATGGATGC TGCAGATGCG G 31 INFORMATION FOR SEQ ID NO: 3: 126 (i) SEQUENCE CHARACTERISTICS: 127 (A) LENGTH: 32 base pairs 128 129 (B) TYPE: nucleic acid 130 (C) STRANDEDNESS: single 131 - (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: 132 134 CACACAAAGC TTGGCTTAGC GCCTCTGCCC TG 32 INFORMATION FOR SEQ ID NO: 4: 137 (2) (i) SEQUENCE CHARACTERISTICS: 138 (A) LENGTH: 11 amino acids 139 140 (B) TYPE: amino acid 141 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 142 144 Ser Leu Leu Met Trp Ile Thr Gln Cys Phe Leu 145 10 INFORMATION FOR SEQ ID NO: 5: 148 (2) 149 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 amino acids 150 151 (B) TYPE: amino acid (D) TOPOLOGY: linear 152 153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: 155 Ser Leu Leu Met Trp Ile Thr Gln Cys 156 159 (2) INFORMATION FOR SEQ ID NO: 6: (i) SEQUENCE CHARACTERISTICS: 160 161 (A) LENGTH: 9 amino acids 162 (B) TYPE: amino acid 163 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: 164 166 Gln Leu Ser Leu Leu Met Trp Ile Thr 167 INFORMATION FOR SEQ ID NO: 7: 168 (2) (i) SEQUENCE CHARACTERISTICS: 169 (A) LENGTH: 10 amino acids 170 171 (B) TYPE: amino acid (D) TOPOLOGY: linear 172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7: 173 175 Leu Leu Met Trp Ile Thr Gln Cys Phe Leu 176 179 (2) INFORMATION FOR SEQ ID NO: 8: C--> 180(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 amino acids

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

186 Ala Ala Asp His Arg Gln Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln

(B) TYPE: amino acid

(D) TOPOLOGY: linear

181

182

183

184

RAW SEQUENCE LISTING DATE: 09/22/2003 PATENT APPLICATION: US/09/165,546D TIME: 15:37:06

Input Set : A:\PTO.PG.txt

```
187
                                                              15
                                          10
188 Gln Leu
191
        INFORMATION FOR SEQ ID NO: 9:
192
         (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 18 amino acids
193
              (B) TYPE: amino acid
194
195
               (D) TOPOLOGY: linear
196
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
198 Val Leu Leu Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
199
                                                              15
                                         10
200 Leu Thr
        INFORMATION FOR SEQ ID NO: 10:
203 (2)
204
         (i) SEQUENCE CHARACTERISTICS:
205
               (A) LENGTH: 18 amino acids
206
                  TYPE: amino acid
               (B)
207
              (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
208
210 Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val Ser Gly
211
                                         10
                                                              15
212 Asn Ile
215 (2) INFORMATION FOR SEQ ID NO: 11:
216
         (i) SEQUENCE CHARACTERISTICS:
217
              (A) LENGTH: 18 amino acids
218
              (B) TYPE: amino acid
219
              (D) TOPOLOGY: linear
220
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
222 Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala Arg Gly
223
                                          10
224 Pro Glu
227 (2) INFORMATION FOR SEQ ID NO: 12:
228
         (i) SEQUENCE CHARACTERISTICS:
229
              (A) LENGTH: 18 amino acids
230
              (B) TYPE: amino acid
              (D) TOPOLOGY: linear
231
232
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
234 Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe Ala Thr Pro Met
235
                                         10
                                                               15
236 Glu Ala
239 (2)
       INFORMATION FOR SEQ ID NO: 13:
240
         (i) SEQUENCE CHARACTERISTICS:
241
              (A) LENGTH: 18 amino acids
242
              (B) TYPE: amino acid
243
              (D) TOPOLOGY: linear
244
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
246 Thr Val Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His
247
                                         10
248 Arg Gln
251 (2) INFORMATION FOR SEQ ID NO: 14:
252
         (i) SEQUENCE CHARACTERISTICS:
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/165,546D

DATE: 09/22/2003

TIME: 15:37:06

Input Set : A:\PTO.PG.txt

<ul><li>253</li><li>254</li><li>255</li></ul>	(B) TYPE: amino acid														
256		(xi)	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:												
258	Leu	Leu Met Trp Ile Thr													
259		5													
262	(2)	INFORMATION FOR SEQ ID NO: 15:													
263		(i) SEQUENCE CHARACTERISTICS:													
264		(A) LENGTH: 180 amino acids													
265		(B) TYPE: amino acid													
266		(D) TOPOLOGY: linear													
2,67		(xi)	) SE(	QUEN	CE DI	ESCR	IPTIC	ON: S	SEQ :	ÍD NO	o: 15	5			
269	Met	Gln	Ala	Glu	Gly	Arg	Gly	Thr	Gly	Gly	Ser	Thr	Gly	Asp	Ala
270	٠				5					10					15
271	Asp	Gly	Pro	Gly	Gly	Pro	Gly	Ile	Pro	Asp	Gly	Pro	Gly	Gly	Asn
272					20					25					30
273	Ala	Gly	Gly	Pro	Gly	Glu	Ala	Gly	Ala	Thr	Gly	Gly	Arg	Gly	Pro
274					35					40					45
275	Arg	Gly	Ala	Gly	Ala	Ala	Arg	Ala	Ser	Gly	Pro	Gly	Gly	Gly	Ala
276					50					55					60
277	Pro	Arg	Gly	Pro	His	Gly	Gly	Ala	Ala	Ser	Gly	Leu	Asn	Gly	Cys
278					65					70					75
279	Cys	Arg	Cys	Gly	Ala	Arg	Gly	Pro	Glu	Ser	Arg	Leu	Leu	Glu	Phe
280					80					85					90
281	Tyr	Leu	Ala	Met	Pro	Phe	Ala	Thr	Pro	Met	Glu	Ala	Glu	Leu	Ala
282			•		95					100					-105
283	Arg	Arg	Ser	Leu	Ala	Gln	Asp	Ala	Pro	Pro	Leu	Pro	Val	Pro	Gly
284					110					115					120
285	Val	Leu	Leu	Lys	Glu	Phe	Thr	Val	Ser	Gly	Asn	Ile	Leu	Thr	Ile
286					125					130					135
287	Arg	Leu	Thr	Ala	Ala	Asp	His	Arg	Gln	Leu	Gln	Leu	Ser	Ile	Ser
288					140					145					150
289	Ser	Cys	Leu	Gln	Gln	Leu	Ser	Leu	Leu	Met	Trp	Ile	Thr	Gln	Cys
290			•		155					160					165
291	Phe	Leu	Pro	Val	Phe	Leu	Ala	Gln	Pro	Pro	Ser	Gly	Gln	Arg	Arg
292					170					175					180

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/165,546D

DATE: 09/22/2003 TIME: 15:37:07

Input Set : A:\PTO.PG.txt

Output Set: N:\CRF4\09222003\I165546D.raw

L:3 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:31 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]

L:71 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1

L:84 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1

L:180 M:220 C: Keyword misspelled or invalid format, [(i) SEQUENCE CHARACTERISTICS:]